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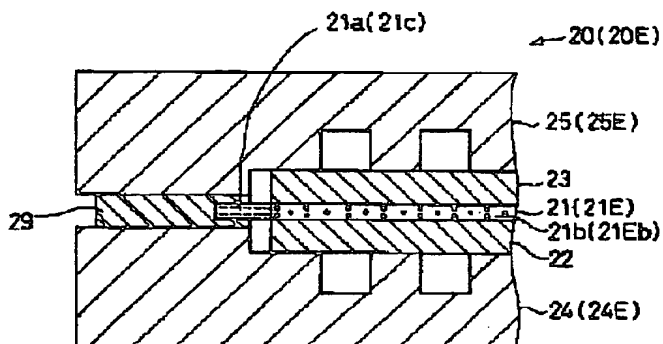
APPLICATION NUMBER : 08028661

APPLICANT : TOYOTA MOTOR CORP;

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TITLE : FUEL CELL AND MANUFACTURE OF FUEL CELL



ABSTRACT : PROBLEM TO BE SOLVED: To make sufficient gas sealability of a solid high polymer electrolyte fuel cell without obstructing the thinning by suppressing an electrolyte film amount to a minimum.

SOLUTION: In an electrolyte film 21, an ion exchange part 21a is formed in a peripheral part corresponding to a connection part with separators 24, 25. The ion exchange part 21a, after mounting a prescribed masking implement on the electrolyte film 21, is formed by immersing it in a potassium hydroxide solution of 1 normal. A battery operating part 21b covered with the masking implement, because of not receiving ion exchange treating, function as an electrolyte layer. The ion exchange part 21a, receiving the ion exchange treating, generates a hydrophobic property, a water absorptive property is lost. In this ion exchange part 21a losing the water absorptive property, a bonding agent is used, the electrolyte film 21 is secured to the separators 24, 25.

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